

**DEFENSE INFORMATION INFRASTRUCTURE (DII)**

**COMMON OPERATING ENVIRONMENT (COE)**

**DCE DCEMgr (Cell Manager) Segment v1.0.0.1  
Installation Instructions for Solaris**

**May 5, 1997**

## Purpose

These are the instructions for installing and configuring the DCE Cell Manager for DII 3.1. This Segment includes the Cell Manager 1.6 Station and Agent software. The Installation guide will show the following:

- How to Install the Station Software and configure it.
- How to install the Station Software and not configure it.
- How to install the Agent Software
- How to configure the Station Software when the software was already installed.

## Space Requirements

The table below shows that to install the station and agent software it requires 18Mb of disk space. If the installation is for a client it still requires 18Mb of disk space but upon completion of installation the agent software will occupy 2.5MB of disk space.

	Station and Agent Software	Agent Software
Solaris 2.5.1	18Mb	18Mb/2.5Mb

Table 1

## Pre-Installation Requirements

Before installing the DCE Cell Manager, your must meet these prerequisite conditions:

- Must know the DCE Cell name (e.g., gccs.smil.mil, acom).
- Must have a license from Chisholm Technologies 512-794-3551.  
License is tied to DCE Cell name.
- Must know the cell\_admin account's password
- The DCE cell must be stable with the minimal configuration of security and CDS Servers running OSF Transarc DCE version 1.1.
- Must be running Solaris 2.5.1
- 50 Mbytes of available swap space
- The software is installed in the /opt/cellmgr directory.
  - If you specify an installation directory other than /opt/cellmgr the script will link this directory to /opt/cellmgr during setup.
- The installer is familiar in using the COEInstaller tool or the Segment Installation option available from the sysadmin COE main menu.

## References

- *Cell Manager 1.6 Overview and User's Guide*
- *Cell Manager 1.6 Security User's Guide*
- *Cell Manager 1.6 Overview and User's Guide*
- *Cell Manager 1.6 Namespace Manager User's Guide*

## **Installing DCE Cell Manager Software**

1. Log in as sysadmin and insert the tape into the system tape drive.
2. Bring up the Segment Installation tool by using the mouse to select Software -> Segment Installer from the COE Main Menu.
3. From Segment Installation screen select the source of the installation, highlight the DCEMgr and select install.
4. A green screen will appear with 5 options to select from as shown below.

Welcome to the Cell Manager installation script!!  
This is an interactive way to install the Cell Manager  
on your platform. Most of the questions posed to you  
will contain a default answer which will be enclosed  
in square brackets []. To use the default press return.

### **Main Menu**

- 
- 1) Load & Setup Cell Manager Station & Agent
  - 2) Load Cell Manager Station & Agent
  - 3) Load Cell Manager Agent only
  - 4) Setup loaded Cell Manager component
  - 5) Remove Cell Manager installation
  - x) Done/Exit/Quit

Enter your choice [1]:

5. You should first install the DCE Cell management host machine by using option 1 or 2. Upon completion use option 3 to install the Agent software on remaining hosts. You may have more than one Cell management host within a cell. Below is a description of each of the options:

1) Option 1 specifies that you want to install and configure the DCE Cell Manager station software and agent software. This option is used to setup and configure the Cell Management Host and should be run first.

2) Option 2 specifies that the DCE Cell Manager station software and agent software is installed but the software is not configured. This option should not be used but is available if an installer wishes to install the software and then configure it at a later date. [The difference between option 1 and 2 is in option 1 you start the Cell Manager daemon (cellmgrd) while in option 2 you don't.]

## DII COE DCE Cell Manager Segment Installation Instructions

- 3) Option 3 specifies that the DCE Cell manager agent software is installed. This option is used to set up the client which reports to the Cell Management Host established in option 1 & 2.
- 4) Option 4 allows you configure your Cell management host which was configured in option 2. This option permits you to turn on the Cell manager daemon (cellmgrd).
- 5) Option 5 specifies that you want to remove the copy of DCE Cell Manager that was already installed. This option should not be used and is replaced by the DEINSTALL option on the Segment Installer.
6. Once the option is selected, it checks to see if any of the Cell Manager processes are running. It does this to ensure that they are not and prevent. If you get a response that informs you they are running it means that the software has already been installed on your system or was installed and not properly removed. Answer yes to the question if it should appear.
- Checking for running Cell Manager process...
7. Select the option based upon your operating system and architecture. The script evaluates the operating system and hardware and recommends the correct Cell Management version to load on your system.

*NOTE: It is important to know that if you are running Solaris 2.5.1 on a Sparc system the installation script will prompt you with option 4 (Solaris 2.5) to be loaded. This is correct. Option 5 is only for an Ultra.*

### Load Cell Manager Station and Agent Menu

- 
- |                           |       |         |
|---------------------------|-------|---------|
| 1) HP-UX                  | 10    | DCE 1.1 |
| 2) HP-UX                  | 10.20 | DCE 1.1 |
| 3) Solaris                | 2.4   | DCE 1.1 |
| 4) Solaris                | 2.5   | DCE 1.1 |
| 5) Solaris                | 2.5.1 | DCE 1.1 |
| 6) AIX                    | 4.1.4 | DCE 1.1 |
| 7) AIX                    | 4.2.0 | DCE 1.1 |
| 8) Return to Main Menu... |       |         |

Enter the Cell Manager type to load [Solaris 2.5 DCE 1.1]:

NOTE: You will need approximately 19000k to load this.

**8.** At the prompt, enter the pathname of the directory where you want to install the DCE Management software. The /opt/cellmgr directory is the default. If you choose to install the software in a different directory the script will create a symbolic link to /opt/cellmgr.

```
Enter the directory name to load the software or "q" to quit
[/opt/cellmgr]:
```

If the directory does not exist it will prompt you to create it. The correct answer is yes.

```
The directory "/opt/cellmgr" does not exist.
Would you like me to create it (y/n/q)? [y]
cd /opt/cellmgr
```

**9.** The script then begins to install the software from the installation directory to the destination directory. This output is correct for Solaris 2.4 or Solaris 2.5.

```
Loading files from:
  /h/COTS/DCEMgr/bin/cellmgr.solaris2.5_dce1.1
to:
  /opt/cellmgr
```

**10.** The script then insures that the permissions are correctly set and begins to configure the software.

```
Setting the owner and group name of the files to root other.
Setting the permissions of the files in /opt/cellmgr.
cd /opt/cellmgr
```

```
*****
Setting up "<hostname>" to run the Cell Manager
*****
Creating /opt/cellmgr/local/dce_type file
```

**11.** The Cell Management Software requires the startup of the daemon, cellmgrd. The recommended answer to this question is yes. It places a file in the /etc/init.d directory called rc.cellmgr which is linked to /etc/rc3.d/S99rc.cellmgr. This ensures that the daemon is started at boot time. The correct answer is yes [y].

```
Would you like to have the Cell Manager daemon(cellmgrd) start at
reboot [y]:
```

**12.** The script gives you the option of starting the daemon now. The correct answer to this question for option 1 or 3 is yes [y].

```
Would you like to start the Cell Manager daemon now
(may take a few seconds)? [y]
Starting Cell Manager daemon: ./cellmgrd
```

## DII COE DCE Cell Manager Segment Installation Instructions

```
cellmgrd going into listen loop
/opt/cellmgr/bin/rc.cellmgr ..done
```

**13.** Press the return key to continue the installation.

<<<<< Press return to continue >>>>>

\*\*\*\*\*

\*\*\*\*\*

DONE... Setting up this host to run Cell Manager

\*\*\*\*\*

\*\*\*\*\*

<<<<< Press return to continue >>>>>

**14.** Upon completion of the installation the script returns you to the main menu. You should chose option x to quit the installation.

### Main Menu

-----

```
1) Load & Setup Cell Manager Station & Agent
2) Load Cell Manager Station & Agent
3) Load Cell Manager Agent only
4) Setup loaded Cell Manager component
5) Remove Cell Manager installation
x) Done/Exit/Quit
Enter your choice [x]: x
```

**15.** The Currently Installed Segments window on your Segment Installer should be updated to reflect the addition of DCE Manager Software.

The software is now correctly installed. The script has a self check mechanism to ensure that all software is loaded correctly. Any errors are displayed during installation.

## **DCE Cell Manager Configuration**

## DII COE DCE Cell Manager Segment Installation Instructions

Once the software is installed, it is time to configure it. For this section you will require the following information:

- cell\_admin password
- sysadmin password
- cell name
- license from Chisholm Technologies

**1.** From the COE Main Menu Select Network -> DCE -> Start DCE Cell Manager. The DCE Cell Manager is a new option provided during the DCE Cell Manager installation. This is the first check to ensure that the software was installed into the COE correctly. A screen will appear for log in. The account name is cell\_admin and enter the correct password. The Cell Name at the top of the screen should already be filled in if you have an active DCE.

**2.** The next screen displayed is the DCE Cell Manager Launcher. From this screen you must select the License button to display the License Screen.

Upon completion select load license.

**3.** To verify the installation was successful exercise the options on the menu. Each should provide a graphical display.